

CLAIMS

What is claimed is:

5 1.A measuring circuit structure to determine the voltage of the battery, said circuit structure comprising:

 a device with a constant reference voltage, a first terminal of said device is electrically coupled to a second terminal of a resistor, and a second terminal of said device is grounded;

10 a voltage inputted terminal of said battery, said voltage inputted terminal is electrically coupled to a first terminal of said resistor; and

 an analog to digital converting device, a first terminal of said analog to digital converting device is electrically coupled to said voltage inputted terminal of said battery, a second terminal of said analog to digital converting device is electrically coupled to said first terminal of
15 said device with said constant reference voltage, a third terminal of said analog to digital converting device is electrically coupled to said second terminal of said device with said constant reference voltage, and a fourth
20 terminal of said analog to digital converting device is electrically coupled to a digital signal outputted terminal.

 2.The measuring circuit structure according to claim 1, wherein said device with said constant reference voltage is a diode.

25 3.The measuring circuit structure according to claim 1 wherein said device with said constant reference voltage is a diode.

4.The measuring circuit structure according to claim 1, wherein said device with said constant reference voltage is electrically coupled to said resistor in a series connection.

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5.The measuring circuit structure according to claim 1, wherein said second terminal of said device with said constant reference voltage is grounded.

10 6.A method for determining the voltage of a battery, said method comprising:

providing a battery voltage into a measuring circuit, wherein said measuring circuit comprises a constant reference voltage;

15 converting said battery voltage of said measuring circuit into a digital signal; and
outputting said digital signal.

7.The method according to claim 6, wherein said providing said battery voltage is a voltage-inputted terminal of a battery.

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8. The method according to claim 6, wherein said device with said constant reference voltage is a diode.

25 9. The method according to claim 6, wherein said measuring circuit further comprising a resistor.

10. The method according to claim 6, wherein a first terminal of said device with said constant reference voltage is electrically coupled to a second terminal of said resistor in a series connection.

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11. The method according to claim 6, wherein a second terminal of said device with said constant reference voltage is grounded.

12. The method according to claim 6, further comprising a first
10 terminal of said resistor is electrically coupled to said voltage inputted terminal of said battery.

13. The method according to claim 6, wherein said measuring circuit further comprising an analog to digital converting device.

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14. The method according to claim 13, wherein said analog to digital converting device comprises at least four terminals, wherein a first terminal of said analog to digital converting device is electrically coupled to said voltage inputted terminal, a second terminal of said
20 analog to digital converting device is electrically coupled to a connecting point that between said first terminal of said device with said constant reference voltage and said second terminal of said resistor, a third terminal of said analog to digital converting device is electrically coupled to said second terminal of said device with said constant reference
25 voltage, and a fourth terminal of said analog to digital converting device is electrically coupled to a digital signal outputted terminal.